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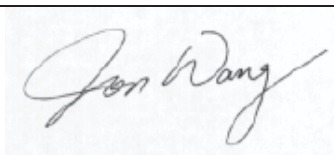|	
Spec. No.:	DDPM-EN05-0.2
Version:	1
Total pages:	26
Date:	2003-Dec.-22

AU OPTRONICS CORPORATION

Product Specifications

17.0" SXGA Color TFT-LCD Module

Model Name: M170EN05 V.8

Approved by	Prepared by
CCChiu	*Jon Wang*

DDBU Marketing Division / AU Optronics Croporation

Customer	Checked & Approved by

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Product Specifications

17.0" SXGA Color TFT-LCD Module
Model Name: M170EN05
V.8

(•) Preliminary Specifications

( ) Final Specifications

Note: This Specification is subject to change without notice.

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8.0 Safety

9.0 Other requirements

10.0 Mechanical Characteristics

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ii Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2003/10/08	All	First Edition for Customer	All	
0.2	8	2.3 Optical characteristics	To define each value for optical performance	Added
	20	L63 Luminance Minimum: 200 Typical: 260	L63 Luminance Minimum: 250 Typical: 300	Modified
	24	8.4 Hazardous Voltages	NA	Removed

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1.0 Handling Precautions

1) Since front polarizer is easily damaged, pay attention not to scratch it.

2) Be sure to turn off power supply when inserting or disconnecting from input connector.

3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.

4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.

5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.

6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.

7) Do not open nor modify the Module Assembly.

8) Do not press the reflector sheet at the back of the module to any directions.

9) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT-LCD module.

10) After installation of the TFT-LCD module into an enclosure (LCD monitor housing, for example), do not twist nor bend the TFT -LCD module even momentary. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT -LCD module from outside. Otherwise the TFT -LCD module may be damaged.

General Description

This specification applies to the 17.0 inch Color TFT-LCD Module M170EN05 V8.

The display supports the SXGA (1280(H) x 1024(V)) screen format and 262k colors (RGB 6-bits data).

All input signals are 2 Channel LVDS interface compatible.

This module does not contain an inverter for backlight.

2.1 Display Characteristics

The following items are characteristics of the panel under 25℃ condition:

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	432(17.0")
Active Area	[mm]	337.920 (H) x 270.336(V)
Pixels H x V		1280(x3) x 1024
Pixel Pitch	[mm]	0.264 (per one triad) x 0.264
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally White
White Luminance	[cd/m^2]	300 (center) @ 7mA
Contrast Ratio		450 : 1 (Typ)
Optical Response Time	[msec]	12 (Typ)
Color Saturation		72% NTSC
Nominal Input Voltage VDD	[Volt]	+5.0 V
Power Consumption (VDD line + CCFL line)	[Watt]	25W (typ) (w/o Inverter, All black pattern)
Weight	[Grams]	2000 (Typ)
Physical Size	[mm]	358.5(W) x 296.5(H) x 19.0(D)
Electrical Interface		Even/Odd R/G/B data, 3 sync signal, Clock
Support Color		262k colors (RGB 6-bit data)
Temperature Range Operating Storage (Shipping)	[^{o}C] [^{o}C]	0 to +50 -20 to +60

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2.2 Functional Block Diagram

The following diagram shows the functional block of the 17.0 inches Color TFT-LCD Module:
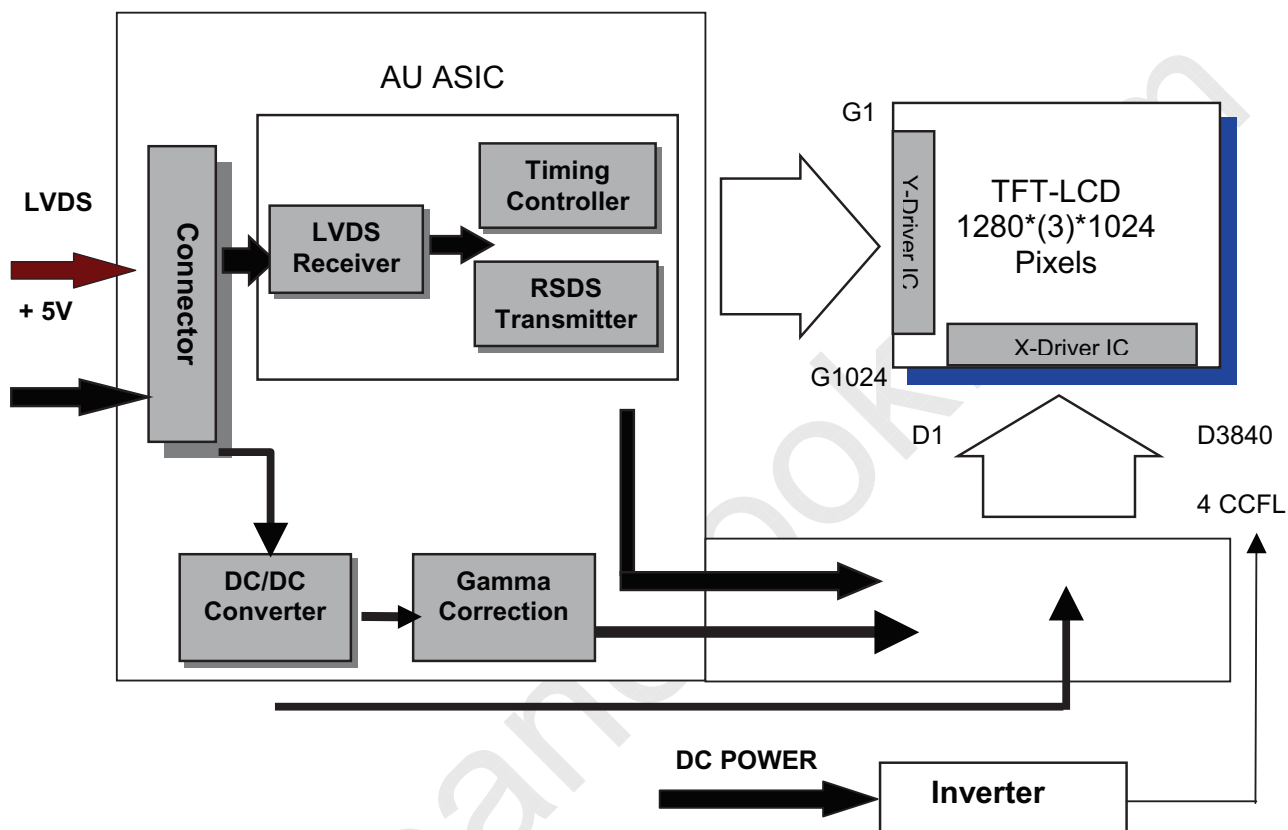
JAE FI-X30S-HF
Mating Type: JAE FI-X30S-H

JST BHR-04VS-1
Mating Type: SM04(4.0)B-BHS-1-TB

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2.3 Optical Characteristics

The optical characteristics are measured under stable conditions at 25℃ (Room Temperature) :

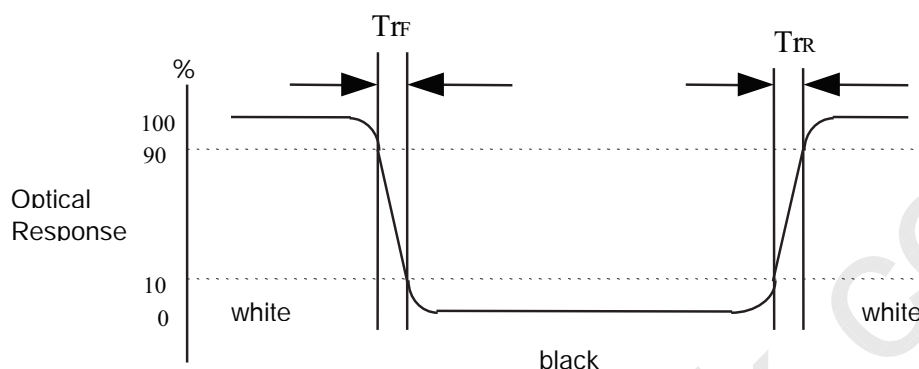| Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	60 60	70 70	-
		Vertical (Up) CR = 10 (Down)	60 60	70 70	-
		Horizontal (Right) CR = 5 (Left)	70 70	80 80	- -
		Vertical (Up) CR = 5 (Down)	70 70	80 80	- -
Contrast ratio		Normal Direction	300	500	-
Response Time (Note 1)	[msec]	Rising Time	-	3	4
		Falling Time	-	9	16
		Rising + Falling	-	12	20
Color / Chromaticity Coordinates (CIE)		Red x	0.61	0.64	0.67
		Red y	0.31	0.34	0.37
		Green x	0.26	0.29	0.32
		Green y	0.58	0.61	0.64
		Blue x	0.11	0.14	0.17
		Blue y	0.04	0.07	0.10
Color Coordinates (CIE) White		White x	0.28	0.31	0.34
		White y	0.30	0.33	0.36
White Luminance @ CCFL 7.0mA (center)	[cd/m^2]		250	300	-
Luminance Uniformity (Note 2)	[%]		75	80	-
TCO99 1.5.2B luminance uniformity (Note 3)					1.7
Crosstalk (in 75Hz) (Note 4)	[%]				1.5

Equipment   Pattern Generator, Power Supply, Digital Voltmeter, Luminance meter (PR 880, BM-5A, BM-7)
Aperture   1° with 100cm VD or 2° with 50cm viewing distance
Test Point   Center (ISO point 22)
Environment   < 1 lux

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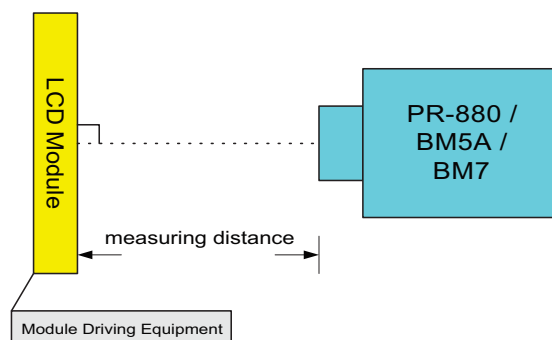
Note 1: Definition of Response time:

The output signals of photodetector are measured when the input signals are changed from " Black" to " White" (rising time), and from "White" to " Black" (falling time), respectively. The response time is interval between the 10% and 90% of amplitudes.

Note 2: Brightness uniformity of these 9 points is defined as below:

$$\text{Uniformity} = \frac{\text{Minimum Luminance in 9 Points (1-9)}}{\text{Maximum Luminance in 9 Points (1-9)}}$$
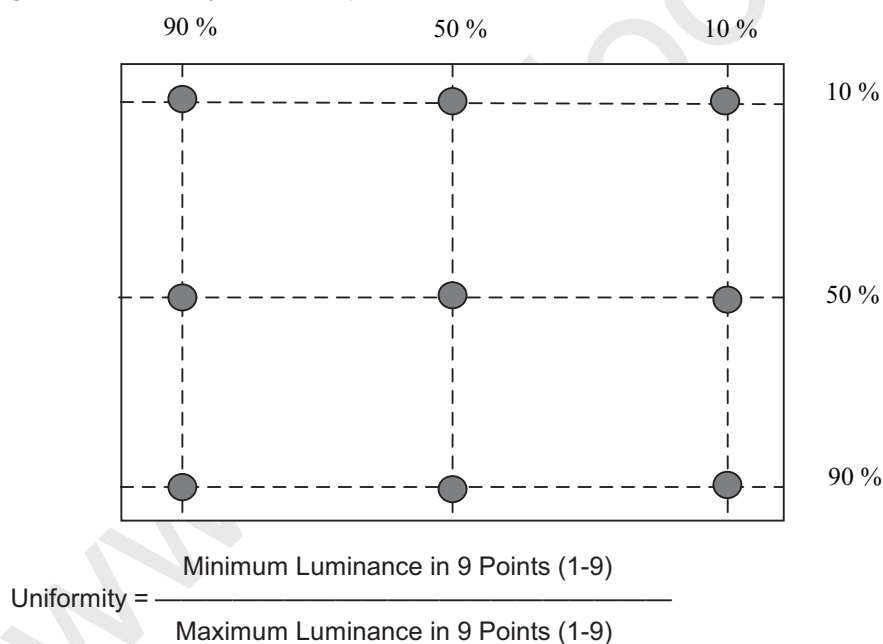
Note 3: TCO '99 Certification Requirements and test methods for environmental labeling of Display Report No. 2 defines Luminance uniformity as below:

((Lmax,+30deg. / Lmin,+30deg.) + (Lmax,-30deg. / Lmin,-30deg.)) / 2

This panel is compatible with TCO99 approbation in luminance uniformity $\leq$1.7

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Note 4:

Unit: percentage of dimension of display area

| L_A-$L_{A'}$ | / L_A x 100%= 1.5% max., L_A and L_B are brightness at location A and B

| L_B-$L_{B'}$ | / L_B x 100%= 1.5% max., $L_{A'}$ and $L_{B'}$ are brightness at location A' and B'

2.4: Pixel format image
Following figure shows the relationship of the input signals and LCD pixel format.

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3.0 Electrical characteristics
3.1 Absolute Maximum Ratings

Absolute maximum ratings of the module is as following:

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VIN	-0.3	+5.5	[Volt]	
Select LVDS data order	SELLVDS	NC	NC	[Volt]	
CCFL Inrush current	ICFLL	-	38	[mA]	
CCFL Current	ICFL	-	7.6	[mA] rms	
Operating Temperature	TOP	0	+50	[°C]	Note 1
Operating Humidity	HOP	8	95	[%RH]	Note 1
Storage Temperature	TST	-20	+60	[°C]	Note 1
Storage Humidity	HST	8	95	[%RH]	Note 1

Note 1 : Maximum Wet-Bulb should be 39℃ and No condensation.

Relative Humidity %

Twb=39℃
T=40℃,H=95%
T=50℃,H=55%
T=60℃,H=39%
T=65℃,H=29%

100
95
80
60
40
20
5
0
-20   0   50   60

Storage range
Operation range
Storage range

Temperature °C

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3.2 Connectors

Physical interface is described as for the connector on module.

These connectors are capable of accommodating the following signals and will be following components.

Connector Name / Designation	Interface Connector / Interface card
Manufacturer	JAE or compatible
Type Part Number	FI-X30S-HF
Mating Housing Part Number	FI-X30S-H

Connector Name / Designation	Lamp Connector / Backlight lamp
Manufacturer	JST
Type Part Number	BHR-04VS-1
Mating Type Part Number	SM04(4.0)B-BHS-1-TB

3.3 Signal Pin

Pin#	Signal Name	Pin#	Signal Name
1	RxO0-	2	RxO0+
3	RxO1-	4	RxO1+
5	RxO2-	6	RxO2+
7	GND	8	RxOC-
9	RxOC+	10	RxO3-
11	RxO3+	12	RxE0-
13	RxE0+	14	GND
15	RxE1-	16	RxE1+
17	GND	18	RxE2-
19	RxE2+	20	RxEC-
21	RxEC+	22	RxE3-
23	RxE3+	24	GND
25	NC	26	NC
27	NC	28	Power
29	Power	30	Power

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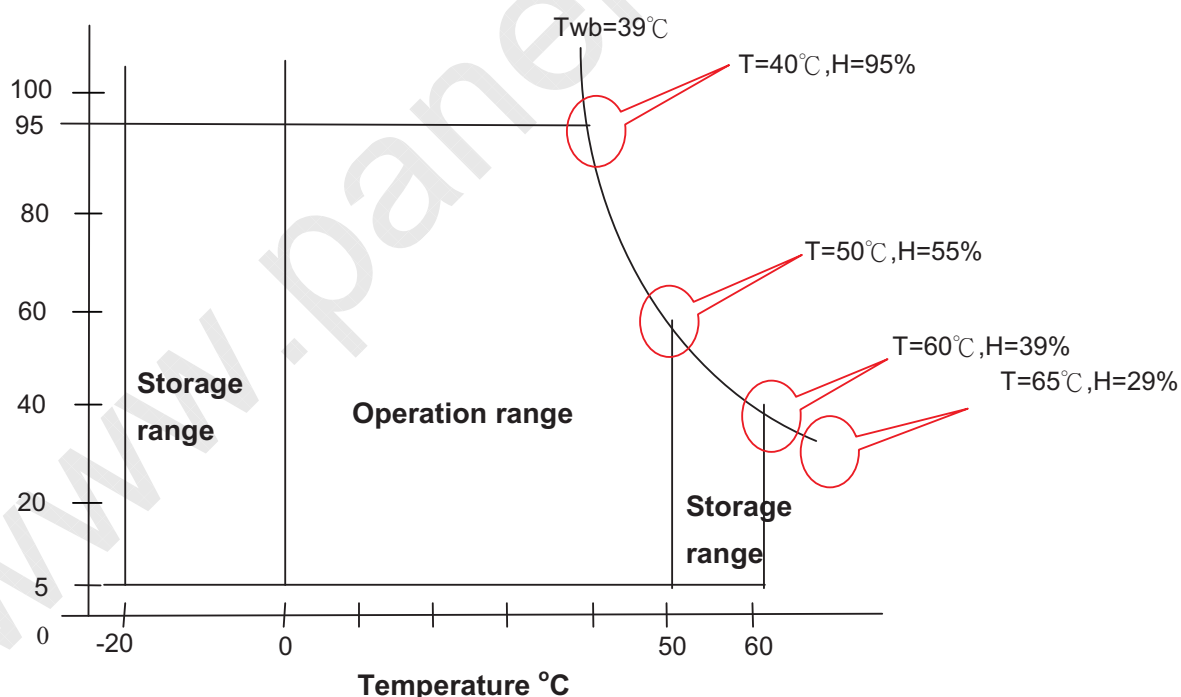
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3.4 Signal Description

The module using a pair of LVDS receiver SN75LVDS82 (Texas Instruments) or compatible. LVDS is a differential signal technology for LCD interface and high speed data transfer device. Transmitter shall be SN75LVDS83(negative edge sampling) or compatible. The first LVDS port(RxOxxx) transmits odd pixels while the second LVDS port(RxExxx) transmits even pixels.
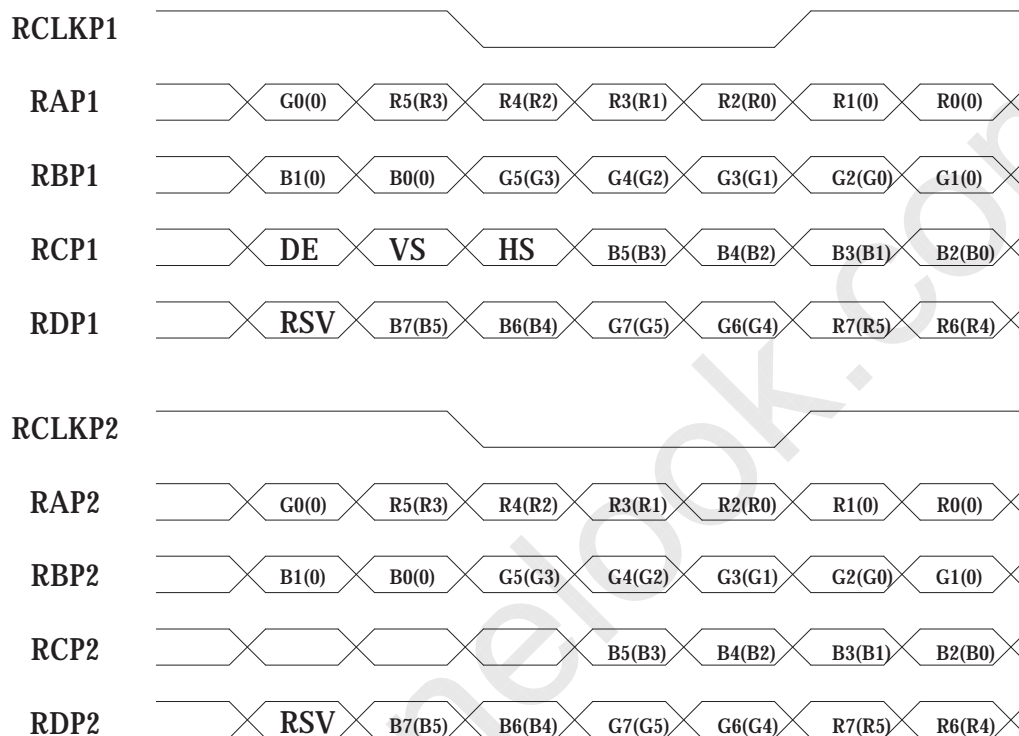
PIN #	SIGNAL NAME	DESCRIPTION
1	RxO0-	Negative LVDS differential data input (Odd data)
2	RxO0+	Positive LVDS differential data input (Odd data)
3	RxO1-	Negative LVDS differential data input (Odd data)
4	RxO1+	Positive LVDS differential data input (Odd data)
5	RxO2-	Negative LVDS differential data input (Odd data, H-Sync,V-Sync,DSPTMG)
6	RxO2+	Positive LVDS differential data input (Odd data, H-Sync,V-Sync,DSPTMG)
7	GND	Power Ground
8	RxOC-	Negative LVDS differential clock input (Odd clock)
9	RxOC+	Positive LVDS differential clock input (Odd clock)
10	RxO3-	Negative LVDS differential data input (Odd data)
11	RxO3+	Positive LVDS differential data input (Odd data)
12	RxE0-	Negative LVDS differential data input (Even clock)
13	RxE0+	Positive LVDS differential data input (Even data)
14	GND	Power Ground
15	RxE1-	Positive LVDS differential data input (Even data)
16	RxE1+	Negative LVDS differential data input (Even data)
17	GND	Power Ground
18	RxE2-	Negative LVDS differential data input (Even data)
19	RxE2+	Positive LVDS differential data input (Even data)
20	RxEC-	Negative LVDS differential clock input (Even clock)
21	RxEC+	Positive LVDS differential clock input (Even clock)
22	RxE3-	Negative LVDS differential data input (Even data)
23	RxE3+	Positive LVDS differential data input (Even data)
24	GND	Power Ground
25	NC	-
26	NC	-
27	NC	-
28	POWER	Power
29	POWER	Power
30	POWER	Power

Note: Input signals of odd and even clock shall be the same timing.

LVDS DATA Name	Description
DSP	Display Timing: When the signal is high, the pixel data shall be valid to be displayed
V-S	Vertical Sync: Both Positive and Negative polarity are acceptable
H-S	Horizontal Sync: Both Positive and Negative polarity are acceptable

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8bits input: M170EN05 only catch bit 2 to bit 7 for 6 bit display
6bits input data format marked with ( ).

RCLKP1							
RAP1	G0(0)	R5(R3)	R4(R2)	R3(R1)	R2(R0)	R1(0)	R0(0)
RBP1	B1(0)	B0(0)	G5(G3)	G4(G2)	G3(G1)	G2(G0)	G1(0)
RCP1	DE	VS	HS	B5(B3)	B4(B2)	B3(B1)	B2(B0)
RDP1	RSV	B7(B5)	B6(B4)	G7(G5)	G6(G4)	R7(R5)	R6(R4)
RCLKP2							
RAP2	G0(0)	R5(R3)	R4(R2)	R3(R1)	R2(R0)	R1(0)	R0(0)
RBP2	B1(0)	B0(0)	G5(G3)	G4(G2)	G3(G1)	G2(G0)	G1(0)
RCP2				B5(B3)	B4(B2)	B3(B1)	B2(B0)
RDP2	RSV	B7(B5)	B6(B4)	G7(G5)	G6(G4)	R7(R5)	R6(R4)

Note: R/G/B data 7:MSB, R/G/B data 0:LSB
O = "First Pixel Data"
E = "Second Pixel Data"

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Scaling IC   Controller IC   Driver IC

6 bits+FRC   8 bits LVDS
              transmitter

8 bits LVDS   8 bits RSDS
Receiver   transmitter

6 bits RSDS
receiver driver IC

```
                        0  ──────→  0
                        1  ──────→  1
        0  ──→  2       ──────→  2        01 ──────→ open
        1  ──→  3       ──────→  3        23 ──────→ 01
        2  ──→  4       ──────→  4        45 ──────→ 23
        3  ──→  5       ──────→  5        67 ──────→ 45
        4  ──→  6       ──────→  6
        5  ──→  7       ──────→  7
```

System   LVDS interface   M170EN05 module

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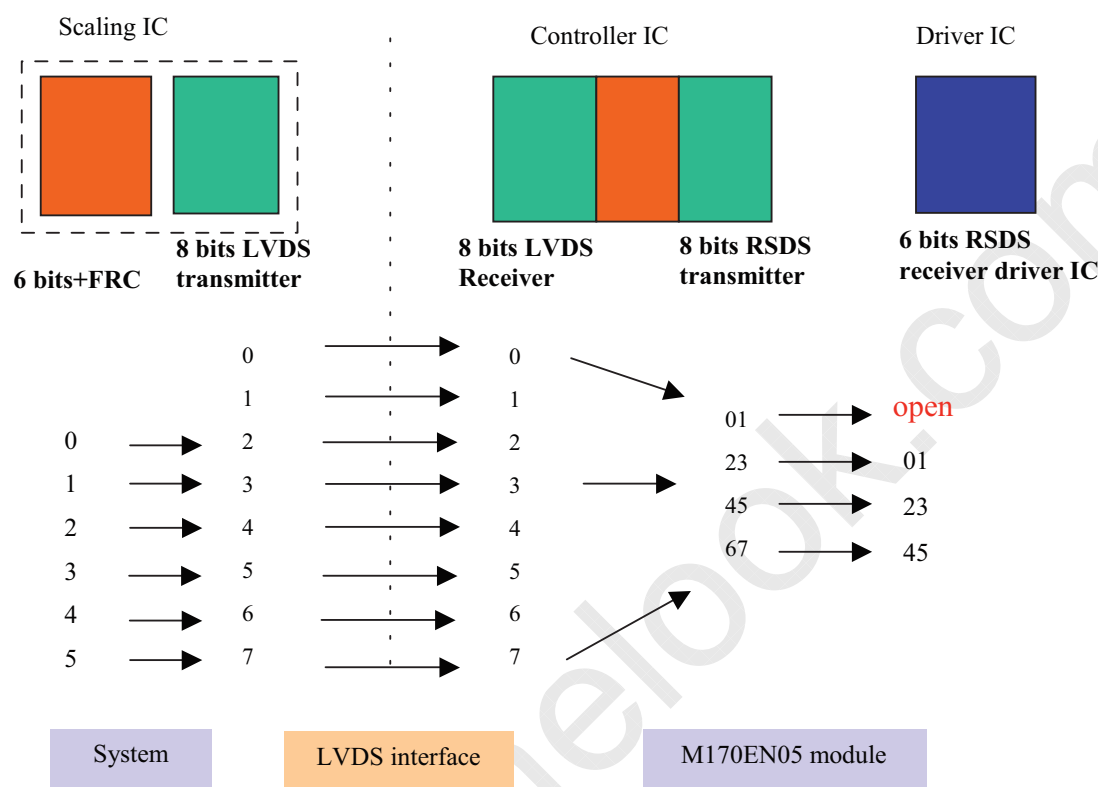
3.5 Signal Electrical Characteristics

Input signals shall be low or Hi-Z state when Vin is off
It is recommended to refer the specifications of SN75LVDS82DGG (Texas Instruments) in detail.

Each signal characteristics are as follows;

Parameter	Condition	Min	Max	Unit
Vth	Differential InputHigh Voltage(Vcm=+1.2V)	100		[mV]
Vtl	Differential Input Low Voltage(Vcm=+1.2V)		-100	[mV]

3.6 Interface Timings
Basically, interface timings described here is not actual input timing of LCD module but output timing of SN75LVDS82DGG (Texas Instruments) or equivalent.

3.6.1 Timing Characteristics

Signal	Item	Symbol	MIN	TYP	MAX	Unit
DTCLK	Freq.	Fdck	50	67.5	70	MHz
DTCLK	Cycle	Tck	14.2	14.8	20	ns
+V-Sync	Frame Rate	1/Tv	56.25	75	77	Hz
+V-Sync	Cycle	Tv	13	13.33	17.78	ms
+V-Sync	Cycle	Tv	1035	1066	2047	lines
+V-Sync	Active level	Tva	3	3		lines
+V-Sync	V-back porch	Tvb	7	38	63	lines
+V-Sync	V-front porch	Tvf	1	1		lines
+DSPTMG	V-Line	m	-	1024	-	lines
+H-Sync	Scan rate	1/Th	-	80.06	-	KHz
+H-Sync	Cycle	Th	800	844	1023	Tck
+H-Sync	Active level	Tha (*1)	4	56		Tck
+H-Sync	Back porch	Thb (*1)	4	124		Tck
+H-Sync	Front porch	Thf	4	24		Tck
+DSPTMG	Display Pixels	n	-	640	-	Tck

Note: Typical value refer to VESA STANDARD　(*1) Tha+Thb should be less than 1024 Tck.

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3.6.2 Timing Definition (Typical Value)
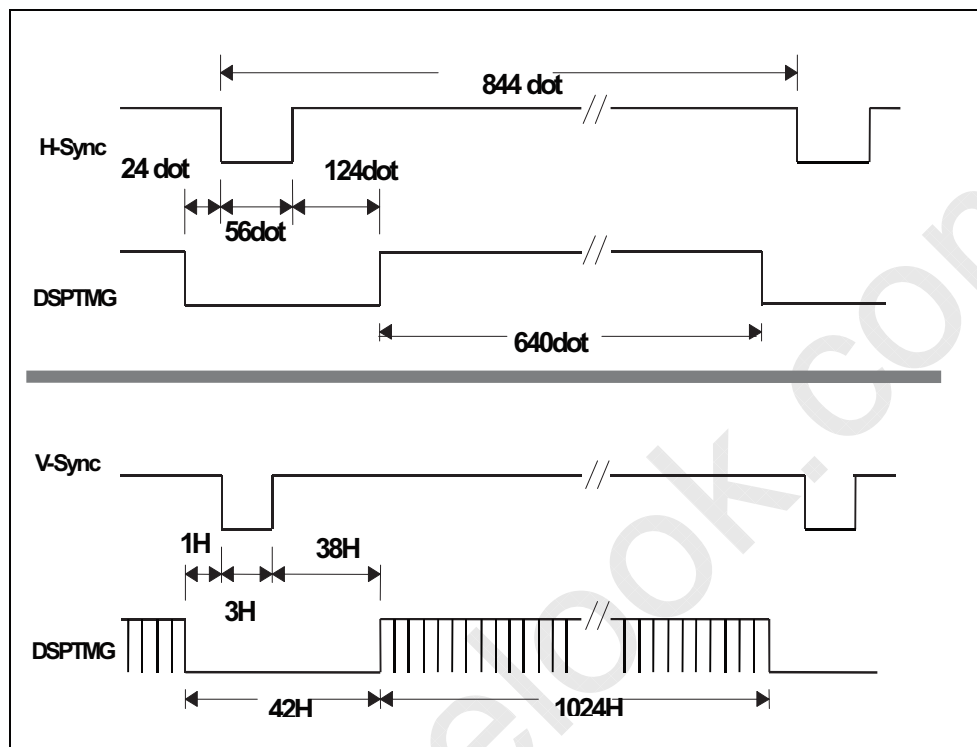
3.7 Power Consumption
Input power specifications are as follows;

Symbol	Parameter	Min	Typ	Max	Units	Condition
VDD	Logic/LCD Drive Voltage	4.5	5	5.5	[Volt]	
IDD	VDD current		950	1200	[mA]	
PDD	VDD Power		4.75	6.6	[Watt]	Vin=5V, Black Pattern
VDDrp	Allowable Logic/LCD Drive Ripple Voltage			100	[mV] p-p	
VDDns	Allowable Logic/LCD Drive Ripple Noise			100	[mV] p-p	

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3.8 Power ON/OFF Sequence

Vin power and lamp on/off sequence is as follows. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state or low level when Vin is off.
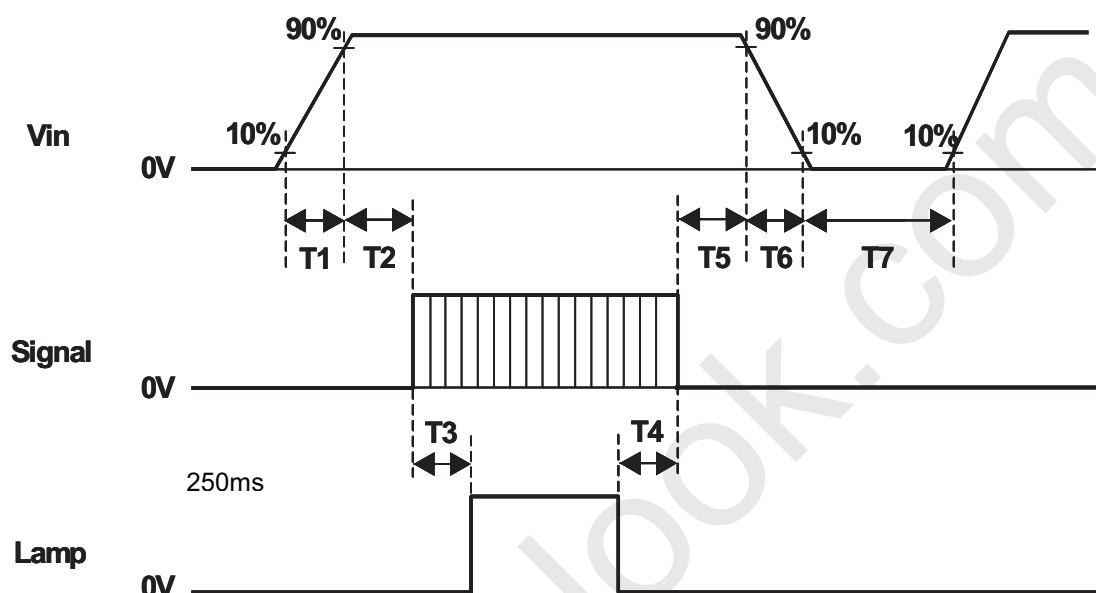
Symbol	Values			Unit
	Min	Typ	Max	
T1	0.5	-	10	[ms]
T2	0.5	25	50	[ms]
T3	250	-	-	[ms]
T4	0.5	200	-	[ms]
T5	0.5	16	50	[ms]
T6	0.5	-	10	[ms]
T7	1000	-	-	[ms]

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4.0   Backlight Characteristics

4.1 Signal for Lamp connector

Pin #	Signal Name
1	Lamp High Voltage
2	Lamp High Voltage
3	No Connection
4	Ground

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4.2 Parameter guideline for CFL Inverter

Symbol	Parameter	Min	Typ	Max	Units	Condition
(L63)	White Luminance	250	300	-	[cd/m^2]	(Ta=25°C)
ISCFL	CCFL standard current	6.5	7.0	7.5	[mA] rms	(Ta=25°C)
IRCFL	CCFL operation range	3.0	7.0	7.5	[mA] rms	(Ta=25°C)
ICFL	CCFL Inrush current	-	26	34	[mA]	Note 1
fCFL	CCFL Frequency	40	50	80	[KHz]	(Ta=25°C) Note 2
ViCFL (0°C)	CCFL Ignition Voltage	1700			[Volt] rms	(Ta=0°C) Note 3
ViCFL (25°C)	CCFL Ignition Voltage	1200			[Volt] rms	(Ta=25°C) Note 3
TCFL	CCFL Dark start time			1.0	sec	(Ta=25°C)
VCFL	CCFL Discharge Voltage (Reference)		700	860	[Volt] rms	(Ta=25°C) Note 4
PCFL	CCFL Power consumption		19.6	25.8	[Watt]	(Ta=25°C) Note 4

Note 1: Duration=50 [msec]
Note 2: CCFL Frequency should be carefully determined to avoid interference between inverter and TFT LCD
Note 3: CCFL inverter should be able to provide a power that has generated capacity of over 1700 voltage. Lamp units need 1700 voltage minimum for ignition.
Note 4: Calculator value for reference (ICFL×VCFL=PCFL)
Note 5: Lamp soldering method is required to use "Hook Soldering".

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5.0 Vibration, Shock, and Drop

5.1 Vibration & Shock

Frequency:　　10 - 200Hz
Sweep: 30 Minutes each Axis (X, Y, Z)
Acceleration:　　1.5G(10~200Hz P- P)
Test method:

Acceleration (G)	1.5
Frequency (Hz)	10~200~10
Active time(min)	30

5.2 Shock Test Spec:

Acceleration (G)	50
Active time	20
Wave form	half-sin
Times	1

Direction: ±X , ±Y, ±Z

5.3 Drop test

Package test: The drop height is 60 cm.

6.0 Environment

The display module will meet the provision of this specification during operating condition or after storage or shipment condition specified below. Operation at 10% beyond the specified range will not cause physical damage to the unit.

6.1 Temperature and Humidity

6.1.1 Operating Conditions
The display module operates error free, when operated under the following conditions;
Temperature   0 ^{0}C to 50 ^{0}C
Relative Humidity   8% to 95%
Wet Bulb Temperature   39.0 ^{0}C

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6.1.2 Shipping Conditions

The display module operates error free, after the following conditions;
Temperature   -20 ^{0}C to 60 ^{0}C
Relative Humidity   8% to 95%
Wet Bulb Temperature   39.0 ^{0}C

6.2 Atmospheric Pressure

The display assembly is capable of being operated without affecting its operations over the pressure range as following specified;

	Pressure	Note
Maximum Pressure	1040hPa	0m = sea level
Minimum Pressure	674hPa	3048m = 10.000 feet

Note : Non-operation attitude limit of this display module = 30,000 feet. = 9145 m.

6.3 Thermal Shock

The display module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20^{0}C to 60^{0}C, and back again.

Thermal shock cycle   -20 ^{0}C for 30min
                                 60 ^{0}C for 30min

Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before powering on.

7.0 Reliability

This display module and the packaging of that will comply following standards.

7.1 Failure Criteria

The display assembly will be considered as failing unit when it no longer meets any of the requirements stated in this specification. Only as for maximum white luminance, following criteria is applicable.

Note : Maximum white Luminance shall be 115 cd/m^{2}or more.

7.2 Failure Rate

The average failure rate of the display module (from first power-on cycle till 1,000 hours later) will not exceed 1.0%. The average failure rate of the display module from 1,000 hours until 16,000 hours will not exceed 0.7% per 1000 hours.

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7.2.1 Usage
The assumed usage for the above criteria is:
　　220 power-on hours per month
　　500 power on/off cycles per month
　　Maximum brightness setting
　　Operation to be within office environment (25^{0}C typical)

7.2.2 Component De-rating
All the components used in this device will be checked the load condition to meet the failure rate criteria.

7.3 CCFL Life
The assumed CCFL Life will be longer than 30,000 hours, typical value is 40,000 hours under stable condition at 25 ± 5°C;
Standard current at 7.0 ± 0.5mA.
Definition of life: brightness becomes 50% or less than the minimum luminance value of CCFL.

7.4 ON/OFF Cycle
The display module will be capable of being operated over the following ON/OFF Cycles.

ON/OFF	Value	Cycles
+Vin and CCFL power	30,000	10 seconds on / 10 seconds off

8.0   Safety
8.1 Sharp Edge Requirements
There will be no sharp edges or comers on the display assembly that could cause injury.

8.2 Materials
8.2.1 Toxicity
There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible AU Toxicologist.

8.2.2 Flammability
All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

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8.3 Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

9.0 Other requirements

9.1 National Test Lab Requirement

The display module will satisfy all requirements for compliance to

UL 1950, First Edition	U.S.A. Information Technology Equipment
CSA C22.2 No.950-M89	Canada, Information Technology Equipment
EEC 950	International, Information Technology Equipment
EN 60 950	International, Information Processing Equipment
	(European Norm for IEC950)

9.2 Label
9.2.1 Product label

```
                                          02/09
|||||||||||||||||||||||||||||    Model No: M170EN05      cᴿᵁus
                                     V.5      MADE IN TAIWAN  E204356
 MM1xxxxxxxxxx-xxxxx          AU Optronics      xxxxx
 Sample :                     RA Guarantee
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
        xxxxxxxxxxxxxxxxxxxxxx
```

10.0 Mechanical Characteristics

NOTES:
1. BACKLIGHT: 4 COLD CATHODE FLUORESCENT LAMPS
2. I/F CONNECTOR : JAE FI-X30S-HF
3. THIS DIMENSION EXCLUDES DEFORMATION
4. TOLERANCE WITHOUT SPECIFIED TO BE 0.5 MM
5. LAMP CABLE CONNECTOR TO BE JST BHR-04VS-1
6. TORQUE OF M3 USER HOLE SHOULD BE WITHIN 4 KGF-cm AND RE-SCREW 10 TIMES.

M170EN05 V.8 ver0.2

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